

In the Claims:

Subject to the approval of the Examiner, please amend Claims 1, 8, 15, and 22; and cancel Claim 2, all as shown below. Applicant reserves the right to prosecute any originally presented claims in a continuing or future application.

1. (Currently Amended) A computer based system for automatically maintaining at least one deployment descriptor, comprising at least one computer and:

a parser operable to generate a representation of the at least one deployment descriptor;

a generator operable to create the at least one deployment descriptor;

a validator operable to validate the at least one deployment descriptor;

a graphical user interface (GUI) operable to at least invoke the parser;

wherein the GUI can include a user-selectable resource hierarchy, settings pane, message area, and toolbar and wherein when a node in the user-selectable resource hierarchy is selected, displaying at least one field in the GUI;

wherein the at least one field corresponds to mapping to more than one value a plurality of values in a plurality of in the at least one deployment descriptor files is displayed;

wherein the system automatically generates a replacement deployment descriptor based on at least one application source code file associated with the at least one deployment descriptor if the at least one deployment descriptor is defective; and

wherein the system is operable to automatically deploy an application associated with the at least one deployment descriptor;

wherein the validator is further operable to

generate an error when it encounters a syntactic or semantic fault in the at least one deployment descriptor's file,

use the GUI to display an error message to a user, the message being selectable by the user,

match the node corresponding to the error in the selectable message in response to the user's selection of the message,

cause the fields of said node to be highlighted in the resource hierarchy, and

display a notification to the user in the GUI wherein the notification includes suggestions for the user to correct said fields.

2. (Canceled)

3. (Canceled)
4. (Previously Presented) The computer based system of claim 1 wherein:
the generator is further operable to produce the at least one deployment descriptor from at least one application source code file.
5. (Previously Presented) The computer based system of claim 1, further comprising:
a builder component operable to automatically update the at least one deployment descriptor to reflect one or more changes in at least one application source code file.
6. (Previously Presented) The computer based system of claim 1 wherein:
the representation can include information pertaining to at least one of: a Java™ archive (JAR), a Web Archive (WAR), an Enterprise Archive (EAR), and a Java™ Connector Architecture Component (RAR).
7. (Previously Presented) The computer based system of claim 1 wherein:
the at least one deployment descriptor can be expressed as an Extensible Markup Language document.
8. (Currently Amended) A computer based system for automatically maintaining at least one deployment descriptor, comprising at least one computer and:
a parser operable to generate a first representation of the at least one deployment descriptor's file;
a generator operable to create a second representation of deployment descriptor information based on at least one application source code file associated with the at least one deployment descriptor;
a graphical user interface (GUI) operable to at least invoke the parser;
wherein the GUI can include a user-selectable resource hierarchy, settings pane,
message area, and toolbar and wherein when a node in the user-selectable resource hierarchy
is selected, displaying at least one field in the GUI;
wherein the at least one field corresponds to a plurality of values in a plurality of
deployment descriptor files;

a validator operable to validate the at least one deployment descriptor and further operable to

generate an error when it encounters a syntactic or semantic fault in the at least one deployment descriptor's file,

use the GUI to display an error message to a user, the message being selectable by the user,

match the node corresponding to the error in the selectable message in response to the user's selection of the message,

cause the fields of said node to be highlighted in the resource hierarchy, and

display a notification to the user in the GUI wherein the notification includes suggestions for the user to correct said fields;

a builder operable to compare the first representation with the second representation;

wherein the builder automatically updates the first representation to create an updated first representation based on the second representation if the builder determines that the at least one application source code file of the second representation has been modified;

wherein the system is operable to automatically generate a replacement deployment descriptor based on the at least one application source code file if the at least one deployment descriptor is defective; and

wherein the system generates new deployment descriptors from the updated first representation.

9. (Previously Presented) The computer based system of claim 8 wherein:

the generator is operable to produce the at least one deployment descriptor from the at least one application source code file.

10. (Previously Presented) The computer based system of claim 8 wherein:

a representation can include information pertaining to at least one of: a Java™ archive (JAR), a Web Archive (WAR), an Enterprise Archive (EAR), and a Java™ Connector Architecture Component (RAR).

11. (Previously Presented) The computer based system of claim 8 wherein:

the at least one deployment descriptor can be expressed as an Extensible Markup Language document.

12. (Previously Presented) The computer based system of claim 8 wherein:
information is not deleted from the first representation after the first representation is updated.
13. (Previously Presented) The computer based system of claim 8 wherein:
information in the second representation that is not in the first representation is added to the first representation.
14. (Previously Presented) The computer based system of claim 8 wherein:
a user can modify information in the second representation.
15. (Currently Amended) A method for updating at least one deployment descriptor, comprising:
- providing a graphical user interface (GUI) wherein the GUI can include a user-selectable resource hierarchy, settings pane, message area, and toolbar and wherein when a node in the user-selectable resource hierarchy is selected, displaying at least one field in the GUI;
- wherein the at least one field corresponds to a plurality of values in a plurality of deployment descriptor files;
- creating a first representation of the at least one deployment descriptor's file;
- creating a second representation of deployment descriptor information based on at least one application source code file associated with the at least one deployment descriptor;
- comparing the first representation with the second representation; and
- automatically updating the first representation to create an updated first representation based on the second representation if the at least one application source code file of the second representation has been modified; and
- generating new deployment descriptors from the updated first representation; and
- validating the at least one deployment descriptor by a validator, wherein the validator is further operable to
- generate an error when it encounters a syntactic or semantic fault in the at least one deployment descriptor's file,
- use the GUI to display an error message to a user, the message being selectable by the user,
- match the node corresponding to the error in the selectable message in response to the user's selection of the message,

cause the fields of said node to be highlighted in the resource hierarchy, and
display a notification to the user in the GUI wherein the notification
includes suggestions for the user to correct said fields.

16. (Original) The method of claim 15 wherein:

the at least one deployment descriptor can include information pertaining to at least one of: a Java™ archive (JAR), a Web Archive (WAR), an Enterprise Archive (EAR), and a Java™ Connector Architecture Component (RAR).

17. (Original) The method of claim 15 wherein:

the at least one deployment descriptor can be expressed as an Extensible Markup Language document.

18. (Previously Presented) The method of claim 15 wherein:

information is not deleted from the first representation after the first representation is updated.

19. (Original) The method of claim 15 wherein:

information in the second representation that is not in the first representation is added to the first representation.

20. (Previously Presented) The method of claim 15 wherein:

a user can modify information in the second representation.

21. (Canceled)

22. (Currently Amended) A machine readable medium having instructions stored thereon that when executed by a processor cause a system to:

provide a graphical user interface (GUI) wherein the GUI can include a user-selectable resource hierarchy, settings pane, message area, and toolbar and wherein when a node in the user-selectable resource hierarchy is selected, displaying at least one field in the GUI;

wherein the at least one field corresponds to a plurality of values in a plurality of deployment descriptor files;

create a first representation of at least one deployment descriptor's file;

create a second representation of deployment descriptor information based on at least one application source code file associated with the at least one deployment descriptor;

compare the first representation with the second representation;

automatically update the first representation to create an updated first representation based on the second representation if the at least one application source code file of the second representation has been modified; and

generating new deployment descriptors from the updated first representation; and

validating the at least one deployment descriptor by a validator, wherein the validator is further operable to

generate an error when it encounters a syntactic or semantic fault in the at least one deployment descriptor's file,

use the GUI to display an error message to a user, the message being selectable by the user,

match the node corresponding to the error in the selectable message in response to the user's selection of the message,

cause the fields of said node to be highlighted in the resource hierarchy, and

display a notification to the user in the GUI wherein the notification includes suggestions for the user to correct said fields.

23. (Original) The machine readable medium of claim 22 wherein:

the at least one deployment descriptor can include information pertaining to at least one of: a Java™ archive (JAR), a Web Archive (WAR), an Enterprise Archive (EAR), and a Java™ Connector Architecture Component (RAR).

24. (Original) The machine readable medium of claim 22 wherein:

the at least one deployment descriptor can be expressed as an Extensible Markup Language document.

25. (Previously Presented) The machine readable medium of claim 22 wherein:

information is not deleted from the first representation after the first representation is updated.

26. (Original) The machine readable medium of claim 22 wherein:

information in the second representation that is not in the first representation is added to the first representation.

27. (Previously Presented) The machine readable medium of claim 22 wherein:
a user can modify information in the second representation.
28. (Canceled)